

ZATSEV, A. K. and ZHELEZNIK, N. V.

Smazki dlja tsapf prokatnykh stanov. Moskva, Gos. nauch.-tekhn. izd-vo,  
1931. 80 p.

Bibliography: p. 59-66.

Lubricants for rolling mill journals.

IU

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV A.K

10

New method for determining the temperature limits of the efficiency of lubricating greases by their sagging (softening) and fusibility. A. K. ZALIZEN. Nestyavnoe Kino  
vol. 17, 731-3 (1920); Chem. Zens., 1920, II, 1632.  
A cylinder 40  $\times$  40 mm. in the bottom of which a hole of 7 mm. upper and 5 mm. lower  
diam. is bored. A rod of the lubricant (40  $\times$  5  $\times$  5 mm.) is placed across the middle  
of the cylinder so that it rests on the edges of the cylinder. A sphere of the same lubricant, 10 mm. diam., is placed on the opening at the bottom of the cylinder.  
Heated in an elec. furnace (200  $\times$  200  $\times$  250 mm.). The temp. must not increase more  
than 2° per min. The following temps. are read:  $t'$  = the point at which softening of  
the rod begins;  $t''$  = end of softening, the rod having reached the level of the cylinder  
edges;  $t_1$ ,  $t_2$  = formation of the first drop on the sphere;  $t_{12}$  = falling off of the first drop.  
The lubricant will be effective from  $t' + t''/2$  to  $t_1 + T_1/2$ .  $t'$  and  $t_1$  are the extreme  
limits of the efficiency, beyond which dry friction begins. The author recommends placing  
a wt. on the middle of the lubricant rods, 5 g. for greases and 10 g. for solid lubri-  
cants.

22

## **ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION**

1341 404197

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.I.; SIGAYEV, Ye.S.; KUZ'MINA, N.N.

Field soil moisture meter based on the method of rapid drying.  
Pochvovedenie no.10:111-115 0 '65. (MIR: 18-11)

1. Nauchno-issledovatel'skiy institut ovoshchennogo khozyaystva.

ZAYTSEV, Aleksandr Il'ich; LUTSIK, Pavel Ivanovich; SOKOLOV, L.S., inzh.,  
red.; USENKO, L.A., tekhn.red.

[Operation of an electrified railroad section using alternating  
current] Opyt eksploatatsii elektrifitsirovannogo uchastka na  
peremennom toke. Moskva, Vses.izdatel'sko-poligr.ob"edinenie  
M-va putei soobshcheniya, 1960. 79 p. (MIRA 13:9)  
(Electric railroads)

ZAYTSEV, Aleksandr Ivanovich; PASECHNIK, A.F., red.; RUBINOVA,  
L.Ye., tekhn. red.

[Means for saving electric power in industrial enterprises]  
Puti ekonomii elektricheskoi energii na promyshlennykh pred-  
priatiakh. Tomsk, Tomskoe knizhnoe izd-vo, 1961. 42 p.  
(MIRA 16:8)

(Electric power)

GOLUB', A.I.; ZAYTSEV, A.I.

Instrument for precise measurement of machine-shaft speeds.  
Priborostroenie no.12:27 D '61. (MIRA 14:12)  
(Tachometer)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.I.; BYSTRITSKIY, N.D.; GOTLINSKIY, Ya.I.

Industrial steam take-off from the AK-25-1 condensing turbine.  
Prom. energ. 16 no.12:11-14 D '61. (MIRA 14:12)  
(Steam turbines) (Steam)

ZAYTSEV, A.I., kand.tekhn.pauk

Increasing the blowing parameters of turboblowers and the  
economic use of steam turbines in ferrous metallurgy plants.  
Biul. TSIICHM no.3:21-26 '61. (MIRA 14:12)  
(Metallurgical Plants--Equipment and supplies)  
(Steam turbines)

18(5)

SOV/112-59-1-854

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 114 (USSR)

AUTHOR: Zaytsey, A. I.

TITLE: Sparkproof Scheme of Automatic Control for Conveyer Lines

PERIODICAL: V sb.: Gorn. elektrotehnika. M., Ugletekhizdat, 1957, pp 398-404

ABSTRACT: Disadvantages of existing schemes of automatic control for mine-type conveyer lines are listed, and requirements to such schemes are formulated.

A new scheme of a sparkproof automatic control is suggested, which differs from others in that all control devices are connected to the control-winding circuits of magnetic amplifiers; the amplifiers operate as relays and their control currents do not exceed 5-10 ma. The principal and wiring diagrams are presented, and the principle of operation is explained.

I.I.S.

Card 1/1

SOV/112-59-1-834

Schemes for Automatically Synchronizing Induction Motors Developed by the . . .

the acceleration period, a current relay cuts off this starter; then the motor-starter current flows via the rectifier into the rotor, and the motor begins to operate as a synchronous machine. Bibliography: 8 items.

I.I.S.

Card 2/2

8(0)

SOV/112-59-1-834

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 111 (USSR)

AUTHOR: Zaytsev, A. I., and Yershov, Yu. I.

TITLE: Schemes for Automatically Synchronizing Induction Motors Developed by  
the Tomsk Polytechnic Institute

PERIODICAL: V sb.: Gorn. elektritehnika, M., Ugletekhizdat, 1957, pp 558-565

ABSTRACT: A few schemes are suggested for synchronizing induction motors; the  
schemes ensure field forcing on overloads and a stable operation under  
synchronous conditions with sharp load fluctuations. Some of the suggested  
schemes are but little sensitive to voltage fluctuations. Most interesting is  
the scheme intended for motors whose rotor rated current is lower than that  
of the stator. Selenium rectifiers supplying the rotor winding under  
synchronous conditions are connected in a three-phase circuit in series with  
the stator winding. During motor acceleration, the selenium rectifiers are  
shunted on both DC and AC sides by the contacts of an auxiliary starter. After

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.I.

First results in operating on alternating current. Elektro tepl. tsiara  
no. 3:11-13 Ag 1938.  
(NIIK 10:8)

1. Nachal'nik 3-go uchastka energosnabzheniya Moskovsko-Kursko-  
Donetskoye dorogi.  
(Electric railroads)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A. I.

"Calculations for High Tension Lines with a Uniformly Distributed Load,"

Elektrичество, No. 9, 1949.

Mbr., Tomsk Polytechnic Inst., -cl979-

ZAYTSEV, A.I., inzhener.

Camp on the Istra. Zdorov'e 1 no.6:7-8 Je. '55.

(MIRA 9:5)

1. Nachal'nik pionerskogo lagerya.  
(CHILDREN--CARE AND HYGIENE)

ZAYTSEV, A.I. (Moginsk).

"Plans for lessons in arithmetic in the 6th grade" by N.I. Syrneva.  
Reviewed by A.I. Zaitsev, Mat. v shkole ne, 2:79-80 Mr-Ap '57.  
(Arithmetic--Study and teaching) (Syrneva, N.I.) (MLRA 10:5)

ZAYTSEV, A.I., inzhener; VLASOV, D.I., inzhener.

Transportation and loading of bolts by truck loaders. Mekh.trud.rab. 7  
no.6:46 Je '53. (MLR. 6:6)  
(Lumber--Transportation)

12(4)

SOV/118-59-2-9/26

AUTHOR: Zaytsev, A.I., Engineer

TITLE: Cradle Grabs for Fork-Lifts (Lyulechnyye zakhvaty k avtopogruzchikam)

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,  
Nr 2, pp 30-31 (USSR)

ABSTRACT: The author has designed (in cooperation with D.I. Vlasov, Chief Engineer of the Leningradskiy lesnoy port (the Leningrad Timber Port Installation) and Ye.D.Loginov, mechanic) a special grab mounted on fork-lifts, of which 26 are already being used in Leningrad. The fork-lift is designed for loading props (length-2 m). Its lifting capacity is 2.5 load cu m. It may be used for loading freight cars, gondola cars and trucks. The productivity of the cradle loader is 180 load cu m per shift. The savings achieved amount to 800,000 rubles per shift, and made it possible to release 40 workers, employed before with storage operations. There are 5 photographs.

Card 1/1

ACC NR: AR6029295

results of a laboratory test of the generator test model show that circuit operation is not affected by the spread in the transistor parameters. [Translation of abstract] 5 illustrations and bibliography of 2 titles. I. S.

SUB CODE: 09

Card 2/2

ACC NR: AR6029295

SOURCE CODE: UR/0271/66/000/006/A030/A030

AUTHOR: Zaytsev, A. I.; Zelenov, B. L.

TITLE: Semiconductor voltage regulator for induction generators

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 6A233

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 153, 1965, 59-64

TOPIC TAGS: generator, voltage regulator, automatic control design

ABSTRACT: A discrete automatic system is described for regulating the voltage of induction generators. It has a phase compounding unit and a semiconductor regulator. The generator output voltage measuring unit also acts as a pulse width modulator. The regulator unit has a preamplifier, intermediate amplifier, and a transistorized driver amplifier. Initially the generator builds its voltage up to 10--12% of the nominal. Then the phase compounding unit forces the generator output to reach its rated voltage. The forced excitation is possible because the output voltage measuring unit is inactive when the output voltage is below the rated value. When the rated value is exceeded the measurement unit gives out an error signal. A pulse derived from this signal cuts off an amplifier transistor for a time duration corresponding to the signal. The current passing through the generator magnetization winding has a magnitude which is determined by the duration of the cut-off state of another amplifier transistor which in turn depends on the magnitude of the error signal. This reduces the generator output voltage, the error signal, and the rate of voltage decrease. The

Card 1/2

UDC: 621.316.722

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ACC NR: AP6029292

graphy of 3 titles. T. R.

SUB CODE: .09

Card 2/2

ACC NR: AR6029292

SOURCE CODE: UR/0271/66/000/006/A023/A023

AUTHOR: Zaytsev, A. I.; Zhikov, M. A.; Sapozhnikov, A. I.

TITLE: AC converter using pulse duration modulation.

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 6A177

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 153, 1965, 29-35

TOPIC TAGS: frequency converter, signal generator, electric generator unit

ABSTRACT: The possibilities are investigated for obtaining sinusoidal voltages and currents in the frequency range from 0 to 200 cps at the output of a semiconductor frequency converter. The continuous sinusoidal signal is obtained by using time quantization in which the continuous signal is converted into a sequence of pulses whose duty cycle varies according to the input signal changes. The functional diagram of a single-phase frequency converter is given. A continuous reference sinusoidal signal is applied to the frequency converter from a starting generator. The schematic diagrams and descriptions of specific frequency converter circuits are given. The output current and voltage oscilloscope traces corresponding to the single-phase frequency converter driving a two-phase asynchronous motor are presented. The output voltage amplitude of this frequency converter may be varied by 50% while its quasinsinusoidal shape is preserved. The output frequency and amplitude may also be regulated independently. [Translation of abstract] 6 illustrations and bibli-

Card 1/2

UDC: 62-52:621.314.26

ZAYTSEV, A. I.

Industrial logging enterprise Moskva, Goslesbumizdat, 1952. 57 p. (54-22460)

SD360. R9Z3

1. Kirishskii lespromkhoz. I. Lukovskii, o.V., Jt.au.

ZAYTSEV, A.I.

What has been indicated by the operational experience of yards  
for joining a.c. and d.c. current. Elek. i tepl. tiaga 3 no.5:  
6-9 My '59.  
(MIRA 12:9)

1. Nachal'nik 3-go uchastka energosnabzheniya Moskovsko-Kursko-  
Donbasskoy dorogi.  
(Electric railroads--Wires and wiring)

ZAYTSEV, A.I., inzh.

Manufacture of filter parts from vinyl plastics. Khim.  
mash. no.4:38-39 JI-Ag '60. (MIRA 13:7)  
(Sverdlovsk--Filters and filtration)

Experimental Production of Vinyl Plastics Filter Parts 8/184/60/000/004/013/021  
A109/A029

creased the tensile strength of sheets. Even and corrugated vinyl plastics sheets are cut with a circular saw. The corrugated sheet is welded into the pipe with the help of 12 strips of 3-mm vinyl plastics sheets. The float is welded together of two 8-mm pressed bottoms. The edge is slit open at an angle of 50 - 70° prior to being butt-welded. Welding is done with 200 - 250°C air and a filler rod. Air consumption is regulated by an oxygen reducer. To prevent deformations of vinyl plastics frames these filters can be used only in chemicals with a temperature not exceeding 50°C. There are 2 figures.

Card 2/2

3/18/60/000/004/013/021  
A109/A029

AUTHOR: Zaytsev, A. I., Graduate Egnineer /

TITLE: Experimental Production of Vinyl Plastics Filter Parts ✓

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1960, No. 4, pp. 38 - 39

TEXT: In 1959 the Uralkhimmash Plant started the production of фР1-50 (FR1-50) filters consisting of a rubber bed and vinyl plastics frame. The filter was developed by Giproiv for filtration of corrosive chemicals used in synthetic fiber production. These chemicals containing 140 g/l sulfuric acid, 250 g/l sodium sulfate, hydrogen sulfide and carbon bisulfide have a temperature of 45 - 50°C. Compared to the former фР-4 (FR-4) filter the new FR1-50 filter ensures a pressure increase from 1 to 3 atm and a filtration surface increase from 32 to 50 m<sup>2</sup> [Abstractor's note: m<sup>3</sup> is probably a mistake for m<sup>2</sup>], whereas its total weight decreased from 1.95 to 1.9 tons. Vinyl plastics filter parts consist of basic, intermediate and end frames and lining sheets. Corrugated sheets are welded, cut to measure, preheated and pressed on a special press. The necessary removal of joint stiffening was abolished in compliance with a suggestion made by the puncher A.M. Krivoshchekov which saved 19,000 rubles and slightly in-

Card 1/2

PETROV, N.A.---(continued) Card 2.

Obshchie voprosy primeneniia izotopov. Pribory s istochnikami radioaktivnykh izlucheni. Radiatsionnaia khimiia. Khimicheskais i neftepererabatyvaiushchais promyshlennost'. 1961. 340 p. Vol.2. [Construction and the industry of construction materials. Light industry. Food industry and agriculture. Medicine] Stroitel'stvo i promyshlennost' stroitel'nykh materialov. Legkaisa promyshlennost'. Pishchevaisa promyshlennost' i sel'skoe khozisistvo. Meditsina. 1961. 267 p.

(MIRA 14:4)

1. Vsesoyuznoye soveshcheniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheni v narodnoye khozyaystvo SSSR. Riga, 1960.

(Radioisotopes) (Radiation)

PETROV, N.A., red.; PETRENKO, L.I., red.; SAVITSKIY, P.S., red.; SINITSIN, V.I., red.; KOLOTYRKIN, Ya.M., red.; SYRKUS, N.P., red.; ROMM, R.F., red.; ANTYSHEV, P.I., red.; VARTAZAROV, S.Ya., red.; ZAYTSEV, A.I., red.; ZEZYULINSKIY, V.M., red.; ZEDGINIDZE, G.A., red.; MARTYINKIN, F.F., red.; ROGACHEV, V.I., red.; SLATINSKIY, A.N., red.; LEVINA, Ye.S., vedushchiy red.; TITSKAYA, B.F., vedushchiy red.; PERSHINA, Ye.G., vedushchiy red.; IONEL', A.G., vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Transactions of the Conference on the Introduction of Radioactive Isotopes and Nuclear Radiation into the National Economy of the U.S.S.R.] Trudy Vsesoiuznogo soveshchaniia po vnedreniiu radioaktivnykh izotopov i iadernykh izlucheniis v narodnoe khoziaistvo SSSR. Pod red. N.A.Petrova, L.I.Petrenko i P.S.Savitskogo. Moscow, Gos.sciuchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.1. [General aspects of isotope applications. Instruments with sources of radioactive radiation. Radiation chemistry. Chemical and petroleum refining industry]

(Continued on next card)

ZAYTSEV, A.I., kand.tekhn.nauk; GOLUB', A.I.; GOLYNKIN, A.A.

Hydraulic removal of silt from mechanical self-cleaning filters.  
Energ. i elekrotekh. prom. no.1:61-64 '62. (MIRA 15:6)

1. Ukrenergochermet.  
(Air filters)

ZAYTSEV, A.I.; SIMELEV, B.G., inzh., retsenzent; BRASLAVSKIY,  
G.B., inzh., red.

[Economic efficiency of precision casting] Ekonomicheskaya  
effektivnost' lit'iia po vyplavliaemym modeliam. Moskva,  
Izd-vo "Mashinostroenie," 1964. 75 p. (MIRA 17:5)

ACC NR: AR6029294

SOURCE CODE: UR/0271/66/006/006/A029/A029

AUTHOR: Achkasov, Yu. M.; Zaytsev, A. I.

TITLE: Calculating the control angle in continuous pulse control systems

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 6A227

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 153, 1965, 142-146

TOPIC TAGS: automatic control, automatic control system, electric motor

ABSTRACT: A continuous-pulse control of the velocity of rotation of a dc motor in a URV-D system is considered when, depending on the control depth, the firing angle of the ion converter is changed. A law governing the change in the firing angle as a function of the control range and shaft load is established. It is shown that the continuous-pulse control of the rotating velocity assures equal current pulses passing through a single rectifier in the entire control range. The pulses are not changed with respect to height when the load is changed within permissible limits.  
[Translation of abstract] 2 illustrations and bibliography of 2 titles. B. U.

SUB CODE: 09

Card 1/1

UDC: 62-531.6

ACCESSION NR: AP4025742

for d-c motor pulse-type speed regulation systems. The divider was reported on  
in "Byulleten' izobreteniy," no. 21, 1962; Author's Certificate no. 151514.  
Orig. art. has: 4 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 09 Mar 63 DATE ACQ: 16 Apr 64 ENCL: 00

SUB CODE: EC NO REF Sov: 001 OTHER: 000

Card 2/2

ACCESSION NR: AP4025742

S/0144/64/000/002/0239/0242

AUTHOR: Zaytsev, Aleksandr Ivanovich (Candidate of technical sciences,  
Docent, Head of chair); Zaytsev, Aleksandr Petrovich (Aspirant)

TITLE: New schemes of variable-ratio frequency divider

SOURCE: IVUZ. Elektromekhanika, no. 2, 1964, 239-242

TOPIC TAGS: frequency divider, thyratron frequency divider, variable ratio  
frequency divider, three phase frequency divider, frequency division

ABSTRACT: A method of frequency division in which the division ratio depends  
on a controlling d-c voltage is considered; a storage capacitor "counts" a certain  
number of incoming pulses and by discharging through a thyratron creates lower-  
frequency outgoing pulses. Descriptions of the principal single-phase and 3-phase  
circuits and oscillograms of laboratory tests are presented. The application of  
the variable-ratio divider is indicated for shaping and counting schemes as well as

Card 1/2

GOL'DMAN, A.M., kand.khimicheskikh nauk; ZAYTSEV, A.I.; KOSTYLEV, G.I.;  
LAKIDMANCHUK, L.S.; LUBYANITSKIY, I.Ya., kand.khimicheskikh nauk;  
PREOBRAZHENSKIY, V.A.; FURMAN, M.S., doktor khimicheskikh nauk;  
Prinimali uchastiye: ZHADIN, B.V.; VESEL'CHAKOVA, T.L.; SEDOVA, S.M.;  
TRUBNIKOVA, V.I.; KUPIN, M.I.; ZHUKOVA, Ye.I.

Preparation of adipic acid in a continuous pilot unit.  
Khim.prom. no.5:323-327 My '62. (MIRA 15:7)  
(Adipic acid)

ZAYTSEV, A.I., kand.tekhn.nauk

Built-in gas-turbine units for the utilization of waste-gas heat  
from soaking pits of blooming mills. Trudy NTO chern. met. 20:116-  
123 '60. (MIRA 13:10)

1. Ukrrenergochermet.  
(Gas turbines) (Rolling mills)

BESKIN, L.I., inzh.; ZAYTSEV, A.I., kand. sel'skokh. nauk

Neutron method for determining soil moisture. Trudy VNIIGIM 38:  
(MIRA 16:7)  
72-82 '62.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki  
i melioratsii (for Beskin). 2. Vsesoyuznaya akademiya sel'-  
skokhozyaystvennykh nauk imeni Lenina (for Zaytsev).  
(Soil moisture) (Neutrons)

ZAYTSEV, Aleksandr Ivanovich, kand.tekhn.nauk, dotsent; OBRUSNIK, Valentin Petrovich, aspirant

Semigraphical calculation of the steady-state characteristics of  
transformers regulated by shunt excitation. Izv.vys.ucheb.zav.,  
elektromekh. 7 no.10:1234-1240 '64. (MIRA 18:1)

1. Zaveduyushchiy kafedroy elektrifikatsii promyshlennyykh predpriyatiy Tomskogo politekhnicheskogo instituta (for Zaytsev).
2. Kafedra elektrifikatsii promyshlennyykh predpriyatiy Tomskogo politekhnicheskogo instituta (for Obrusnik).

NAZAROV, L.S., inzh., nauchnyy sotrudnik; ZAYTSEV, A.I., inzh.,  
nauchnyy sotrudnik; SOKOLOV, A.P., inzh., nauchnyy sotrudnik

Rheostatic tests of the TE3 diesel locomotive can be conducted  
less frequently. Elek. i tepl. tiaga 7 no.3:10-11 Mr '63.  
(MIRA 16:6)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo  
instituta zheleznyodorozhnego transporta Ministerstva putey  
soobshcheniya.  
(Diesel locomotives---Testing)

ZAYTSEV, Aleksandr Ivanovich, kand. tekhn. nauk, dotsent; ZAYTSEV,  
Aleksandr Petrovich, aspirant

New networks of frequency dividers with variable coefficients.  
Izv. vys. ucheb. zav.; elektromekh. 7 no.2:239-242 '64.  
(MIRA 17:4)

1. Zaveduyushchiy kafedroy elektrifikatsii promyshlennyykh  
predpriyatiy Tomskogo politekhnicheskogo instituta (for  
Zaytsev, Aleksandr Ivanovich). 2. Kafedra elektrifikatsii  
promyshlennyykh predpriyatiy Tomskogo politekhnicheskogo  
instituta (for Zaytsev, Aleksandr Petrovich).

ZAYTSEV, A.I., kand. tekhn. nauk; GMUH<sup>1</sup>, A.I., inzh.; RUDNEV, D.D.,  
inzh.

Construction and use of portable tachometer devices with a  
high class of accuracy. Boberg, i elektrotelkh. prom. no. 4734-37  
0-0 163. (MIRA 17:10)

ZATSEV, A.I., kand.tekhn.nauk

Increasing the economic efficiency and power of steam turbines at  
metallurgical plants. Trudy NTU chern. met. 20:108-115 '60.  
(MIRA 13:10)

1. Ukrrenergochermet.  
(Metallurgical plants) (Steam turbines)

ZAYTSEV, A.I.; KUTYAVIN, I.D., red.

[Design of electric substations for industrial enterprises; manual]  
Proektirovaniye elektricheskikh podstantsii promyshlennyykh pred-  
priiatii; uchebnoe posobie. Tomsk, Izd-vo Tomskogo univ., 1960.  
98 p. (MIRA 14:10)

(Electric substations)

L 1007-66  
ACC NR: AT0003573

respect to the useful signal and the perturbation. The limitations of the method proposed are that the autopilot can be designed for only one control surface with the characteristics of the aircraft assumed to be linear. Orig. art. has: 22 formulas and 3 figures.

SUB CODE: 010 SUBM DATE: 02Aug65 / ORIG REF: 010

Card 3/3 11/25

L 17007-66  
ACC NR: AT8003673

It is assumed that the interference accompanying the useful signal is a random stationary function of time with zero mathematical expectancy and known spectral density. The perturbation may contain both a non-random component (analytical expression), as well as a random component (with zero mathematical expectancy and known spectral density). It is also assumed that the velocity is constant, the moment characteristics are linear, and that the craft has two planes of symmetry. Equations describing the motion of the aircraft are derived, along with expressions for perturbations in flight. A differential equation is derived for an optimal automatic pilot which will ensure the movement of an aircraft with assigned lateral stress under conditions of interference and perturbations in the form of gusts of wind. The autopilot is optimal if it provides a minimum sum with the proper weighted values of the integral quadratic error in the reproduction of the assigned lateral stress and the integral quadratic errors for the deviation of the angle-of-attack. The variation problem is solved, the autopilot expression is determined, and the characteristics of the optimal system are represented mathematically. Limitations of the moment of oblique blow-by is considered. The design of a bank-stabilizing autopilot and the analytic design of a direction channel automatic pilot is discussed with consideration of the dynamics of banking motion. The results indicate the possibility of applying the method of analytic regulator design to the problem of the determination of the optimal autopilots for various types of aircraft. The optimal pilot and craft form a stable system, with astatism with

Card 2/3

L 17007-66 EWT(d) GS/BC

ACC NR: AT6003873

SOURCE CODE: UR/0000/65/000/000/0194/0216

AUTHOR: Zaytsev, A. G.

75  
C71

ORG: none

TITLE: Analytical designing of optimal automatic pilots for guided aircraft

SOURCE: Issledovaniya po dinamike poleta (Research on flight dynamics), no. 1. Moscow, Izd-vo Mashinostroyeniya, 1965, 194-216

TOPIC TAGS: aircraft automatic pilot, automatic control, optimal automatic control, perturbation, differential equation, signal interference

ABSTRACT: The author determines, by analytical methods, both the optimal structure (differential equation) as well as the optimal parameters (equation coefficients) of an automatic pilot. The problem of the design of the autopilot is formulated and solved in the manner of a problem dealing with the design of an optimum regulator. The purpose of the aircraft-autopilot system is assumed to be the assurance that the craft will carry out a prescribed motion under conditions in which information relating to the useful signal is affected by interference and in which the craft itself is subject to various perturbations.

Card 1/3

UDC: 629.19.05.506.4.006

2

ZAYTSEV, A.G.

1967 World's Fair in Moscow. Gr. khoz. Mosk. 35 no.8:11-16  
Ag '61. (MIRA 14:8)

1. Zamestitel' General'nogo pravitel'stvennogo komissara Vsemirnoy  
vystavki 1967 goda v Moskve.  
(Moscow--Exhibitions)

ZAYTSOV, Aleksey Gavrilovich; KLETSKIY, L.M., prof., otv.red.;  
KOVALENKA, Z.G., red.; TROFIMENKO, A.S., tekred.

[Economics of labor on collective farms] Ekonomika truda  
v kolkhozakh. Kharkov, Izd-vo Kharkovskogo gos.univ.  
im. A.M.Gor'kogo, 1959. 115 p. (MIRA 13:5)  
(Collective farms)

ZAVTSEV, A. G.

The mineral wealth of the White Russian Soviet Socialist Republic; the  
eastern provinces of the White Russian Soviet Socialist Republic.  
Minsk, Izd-vo Akademii nauk BSSR, 1940. 47 p. (53-56250)

TN86.W48Z3

1. ZAYTSEV, A. G.
2. USSR (600)
4. Mink Farming
7. Method for measuring the body length of mink. Kar. i zver. 6, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZAYTSY, A. G.

ZAYTSY, A. G. "The sex cycle of the nutria," Varmakulovedstvo i zverovedstvo, 1949,  
No. 3, p. 56-59

SO: U-5240, 17, Dec. 53, (Lekopis Zhurnal Stately, No. 25, 1949).

PA 31/49798

ZAYTSEV, A. G.

USSR/Medicine - Poisons and Poisoning      Aug 48  
Medicine - Insecticides

"Intoxication of Domestic Animals by Insecto-Fungicides and Its Prophylactic Measures," A. G. Zaytsev, Head of Chem Dept, Sci Practical Diagnostic Vet Lab, Gorvetotdel Mossovet, 4½ pp

"Veterinariya" No 8

Briefly describes 14 poisonous insecto-fungicides. Suggests various methods to prevent poisoning of domestic animals.

31/49798

ZAYTSEV, A.G., prof.

Accelerated growth of the industry producing polymer building materials. Stroi. mat. 10 no.3:2-6 Mr '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.G. (Moskva)

Analytical design of optimal controllers with presence of random external  
disturbances. Avtom. i telem. 24 no.4:447-454 Ap '63. (MIRA 16:4)  
(Automatic control)

ZAYTSEV, A.G. (Moskva)

Analytical design of systems for the reproduction of a useful  
signal in the presence of noise. Avtom.i telem. 24 no.2:143-  
150 F '63. (MRA 16:1)

(Electronics) (Radio)  
(Differential equations)

Zaytsev, A. G.

AID Nr. 980-11 31 May

ANALYTIC DESIGN OF OPTIMAL CONTROLLERS WITH RANDOM EXTERNAL DISTURBANCES (USSR)

Zaytsev, A. G. Avtomatika i telemekhanika, v. 24, no. 4, 1963, 447-453.  
S/103/63/024/004/002/014

The problem of an analytic design of an optimal controller is studied for the case when the motion of a controlled object is described by a linear differential equation with constant coefficients in which the function of disturbances is defined as the sum of regular and random time functions. The design problem is formulated as a variational Lagrange problem where the minimum of the sum of integral square errors of the transient process with respect to the output coordinate and the control functions and of their variances is taken as an optimality criterion. The solution of a variational problem is presented, and the transfer function of the optimal controller establishing the relation between the control function and the coordinates of a controlled object is derived. An analysis is made of the case when the control system contains essential nonlinearities. The method of statistical linearization is employed for designing an optimal controller. An iterative process is described for determining of the transfer function of the optimal controller.

[LK]

Card 1/1

BLOKHIN, Boris Nikolayevich; SMIRNOV, N.A., prof., retsenzent;  
SPIRIDONOVA, O.M., dots., kand. tekhn.nauk, retsenzent;  
CHERNOV, T.P., prof., retsenzent; PREDTECHENSKIY, V.M.,  
prof., doktor tekhn. nauk, retsenzent; RUFFEL', N.A., dots.,  
retsenzent; ZAYTSEV, A.G., prof., retsenzent; DROZDOV,A.G.,inzh.;  
GALITSKIY, V.N., inzh., retsenzent; ZHELUDKOV, V.I., inzh.,  
nauchn. red.; LYTKINA, L.S., red.; DASIMOV, D.Ya., tekhn. red.

[Technology of the construction industry] Tekhnologija stroitel'nogo proizvodstva. Moskva, Gosstroizdat, 1963. 263 p.  
(MIRA 17:1)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
2. Kafedra stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Spiridonova). 3. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva (for Chernov). 4. Moskovskiy inzhenerno-stroitel'nyy institut imeni V.V.Kuybysheva (for Predtechenskiy, Ruffel'). 5. Zaveduyushchiy kafedroy stroitel'nykh materialov Moskovskogo arkhitekturnogo instituta (for Zaytsev). 6. Glavnyy inzhener Moskovskogo arkhitekturno-planirovochnogo upravleniya (for Drozgov). 7. Direktor Moskovskogo domostroitel'nogo kombinata No.1 (for Galitskiy).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.G.; FADEXEVA, V.S.; KOPCHIKOVA, N.V.

Method of studying the structure of polymeric and porous  
building materials. Sbor. trud. VNIINSM no.4:4-12 '61.  
(MIRA 15:2)

(Building materials)  
(Electron microscope)

ALABYAN, K.S. [deceased]; BLOKHIN, P.N.; BOTVINKO, M.Ye.; DEVYATKOV, G.V.; DMITRIYEV, A.D.; YERSHOV, P.N.; ZAYTSEV, A.G.; KIBIREV, S.F.; KOSTYUKOVSKIY, M.G.; KUZNETSOV, B.T.; L'VOV, G.N.; MOGIL'NYY, A.I.; ORLOV, G.M., OVSYAN-NIKOV, K.L.; PROMYSLOV, V.F.; SMIRNOV, N.N.; SKACHKOV, I.A.; SOLOF-MENKO, N.A.; SUSNIKOV, A.A.; CHAGIN, D.A.; KUCHERENKO, V.A., obshchiy red.; GRISHMANOV, I.A., obshchiy red.; SVETLICHNYY, V.I., obshchiy red.; RUBANENKO, B.R., obshchiy red.; BARSKOV, I.M., red.; UDOD, V.Ya., red.izd-va; YUDINA, L.A., red.izd-va; GOLOVKINA, A.A., tekhn. red.

[Building practices in foreign countries; Northern Europe and German Federal Republic] Opyt stroitel'stva za rubezhom; v stranakh Severnoi Evropy i FRG. Po materialam otchetov delegatsii sovetskikh spetsialistov-stroitelei. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 598 p. (MIRA 12:12)

1. Predsedatel' Gosstroya SSSR (for Kucherenko). 2. Zamestitel' predsedatelya Gosstroya SSSR (for Svetlichnyy).  
(Europe, Western--Building)

ZAYTSIV, A.G.

Production of precast plain and reinforced concrete elements  
in the Federal German Republic. Gor. khoz. Mosk. 32 no.5t33-37  
Mv '58. (MIRA 11:5)

Vice-chairman of the Executive Committee  
1. Zamestitel predsedatelya Ispolkomu Moskovskogo Soveta.  
(Germany, West--Precast concrete)

ZAYTSEV, A.G.  
ZAYTSEV, A.G.

Residential building in Moscow in the past forty years. Gor.  
Khoz.Mosk. Bl no.10:9-13 O '57. (MIRA 10:10)

1. Zamestitel' predsedatelya Ispolkomu Mossoveta.  
(Moscow--Building)

ZAYTSEV, A.G.

Further development of new technology and increase of labor productivity in the municipal economy of Moscow. Gor.khoz.Mosk. 31 no.115-9 Ja '57. (MLRA 10:3)

1. Zamestitel' predsedatelya Iapolnitel'nogo komiteta Moskovskogo Soveta. (Moscow--Municipal services)

ZAYTSEV, A.G.

SOSHIN, Andrey Vasil'yevich, doktor tekhnicheskikh nauk, professor;  
ZAYTSEV, A.G., kandidat tekhnicheskikh nauk, dotsent, nauchnyy  
redaktor; UDOD, V.Ya., redaktor izdatel'stva; PERSON, M.H.,  
tekhnicheskiy redaktor

[Mechanized building and assembling and its organization] Organizatsiya  
i proizvodstvo mekhanizirovannykh stroitel'no-montazhnykh rabot.  
Moskva, Gos. izd-vo po stroit. i arkhitekture, 1956. 295 p. (MLRA 10:3)  
(Construction industry) (Building machinery)

ZAYTSEV, A.G.

RUFFEL', N.A., dotsent, redaktor; ZAYTSEV, A.G., kandidat tekhnicheskikh nauk, redaktor; BEGAK, B.A., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Over-all mechanization of construction work; reference manual Kompleksnaiia mekhanizatsiia stroitel'nykh rabot; spravochnoe posobie. Moskva, Gos.izd-vo lit-ry po stroitel'stvi i arkhitekture. Vol.3][Concrete and reinforced concrete work, installations of steel and reinforced concrete construction elements, plastering] Betonnye i zhelezobetonnye raboty, montazh stal'nykh i zhelezobetonnykh konstruktsii shtukaturnye raboty. 1955. 296 p.  
(Building machinery)

ZAYTSEV, A.G., dotsent, kandidat tehnicheskikh nauk.

Training engineering personnel for urban construction and the municipal economy. Gor.khoz.Mosk. 28 no.5:12-16 My '54. (MLRA 7:6)

1. Direktor Moskovskogo instituta inzhenerov gorodskogo stroitel'stva.  
(Engineering--Study and teaching)

TOROPOV, A.S.; RUDERMAN, A.G., inzhener; ZAYTSEV, A.G., nauchnyy redaktor;  
KONTSEVAYA, N.M., redaktor; KRYNOCHINA, M.V., tekhnicheskiy  
redaktor

[Precast plaster in the building industry] Sukhaia shtukaturka v  
stroitel'stve. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezerv-  
izdat, 1953. 46 p. (MLRA 7:11)  
(Plastering)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A. G.

ZAYTSEV, A. G. --"Investigation of a Single Layer Plasterer." Sub 21 Oct 52,  
Moscow Order of the Labor Red Banner Engr Constr Inst imeni V. V. Kuybyshev  
(Dissertation for the Degree of Candidate in the Technical Science)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

1. A. G. ZAYTSEV, Docent
2. USSR (600)
4. Civil Improvement - Stockholm
7. Municipal economy of Stockholm. Gor.khoz. Mosk. 21 no. 11. 1947.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

MANCHINSKIY, V.G., kand.tekhn.nauk, dots.; ZAYTSEV, A.F., inzh.

Investigating materials flowing in front of the tuyeres by means  
of a volumetric hydraulic model. Stal' 20 no.9:774-779 S '60.  
(MIRA 13:9)

1. Leningradskiy politekhnicheskiy institut.  
(Blast furnaces) (Hydraulic models)

*V. G. Manchinskiy*

PAVLYUCHENKO, D.N.; ZAYTSEV, A.D.

Practice of roof control in longwalls mined with coal plows.  
Ugol' 35 no. 12;16-21 D '60. (MIRA 14:1)  
(Donets Basin--Mine timbering) (Coal mines and mining)

ORLOVA, G.A. [Orlova, H.A.]; CHERKASOVA, L.I.; SHESTRIKOVA, O.I.; SERGEYEVA, M.M.; TARASOVA, M.Kh.; KARUNSKIY, V.G. [Karuns'kyi, V.H.]; MISHINA, Z.D.; LIMBEIEVA, T.V.; ROZDIALOVSKIY, B.V. [Rozdialovs'kyi, B.V.]; DYMSHITS, L.S.; ZAYTSEV, M.F., glavnnyy red.; SERGEYEV, N., otv. za vypusk; SERGEYEV, M.F., red.; BERGER, F., tekhn.red.

[Economy of Volyn' Province; a statistical manual] Narodne hospodarstvo Volyns'koi oblasti; statystichniy zbirnyk. L'viv, Derzhstatvydav, (MIRA 12:12) 1958. 211 p.

1. Volyn' (Province) Statystichne upravlinnia. 2. Statisticheskoye upravleniye Volynskoy oblasti (for all, except Sergeyev, N., Sergeyev, M.F.) 3. Nachal'nik Statisticheskogo upravleniya Volynskoy oblasti (for Zaytsev).

(Volyn' Province--Statistics)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.A., inzh.-mekhanik

Useful proposals. Put' i put.khoz. 5 no.4:35 Ap '61. (MIRA 14:7)  
(Railroads--Equipment and supplies)

ZAYTSEV, A.A.; SAYETKHANOV, A.I.; CHERNICHIN, V.G.

Graphic control of visual observations of artificial earth  
satellites by means of gnomonic map lattices. Biul.sta.opt.-  
nabl,isk.sput.Zem. no.23:3-6 '61. (MIRA 15:3)

1. Birskaya stantsiya nablyudeniya iskusstvennykh sputnikov  
Zemli.

(Artificial satellites--Tracking)

Academy of Sciences (Cont.)

sov/5572

- c) Kirichenko, A. G., and M. V. Bratiychuk. [Uzhgorodskiy gosuniversitet -- Uzhgorod State University]. 19
- d) Maksyutov. [Astronomicheskaya observatoriya im. Engel'gardta (Kazan') -- Astronomic Observatory imeni Engel'gardt, Kazan']. 20
- e) Kalikhevich, F. F., and T. Ya. Ivakina. Nikolayev Department of the Main (Pulkovo) Astronomical Observatory of the Academy of Sciences of the USSR] 21
- f) National Observatory in Prague, Czechoslovakia. I. Klepešta (observations), Doctor R. Reichel (measurements), and A. Vrátník (calculations) 21

APPENDICES

- I. Observations of Artificial Earth Satellites by Soviet Stations  
(information taken from telegrams of the observation stations)
- II. Observations of Artificial Earth Satellites by Stations Abroad

AVAILABLE: Library of Congress

Card 4/4

AC/dwm/mas  
10-19-61

Academy of Sciences (Cont.)

SOV/5572

Zotkin, I. T. [Komissiya po kometam i meteoram Astrosoveta AN SSSR-- Committee for Comets and Meteors of the Astronomic Council of the Academy of Sciences of the USSR]. Observation of Draconids on October 8-11, 1959

12

Melin, M. Observing the Satellites [Sky and Telescope, v. 19, no. 2, Dec 1959, 90-91; Russian Translation by V. A. Tol'skoy]

16

Results of Photographic Observations of Artificial Earth Satellites:  
a) Syshchenko, T. Ye., B. A. Firago, and D. Ye. Shchegolev [Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR - Main (Pulkovo) Astronomic Observatory of the Academy of Sciences of the USSR]. Positions of Sputnik III (1958 6<sup>1/2</sup>) According to Photographic Observations in Pulkovo

17

b) Nevel'skiy, A. V. [Astronomicheskaya observatoriya gosudarstvennogo universiteta (Sverdlovsk)-- Astronomic Observatory of Ural State University, Sverdlovsk].

18

Card 3/4

Academy of Sciences (Cont.)

sov/5572

device for recording the pulses of a chronometer. No personalities are mentioned. There are 21 references: 8 Soviet, 11 English, and 2 German.

## TABLE OF CONTENTS:

Dluzhnevskaya, O. B. [Astronomicheskiy sovet AN SSSR — Astronomic Council of the Academy of Sciences of the USSR]. Phenomena Observed During the Impact of the Second Soviet Cosmic Rocket on the Surface of the Moon

1

Gimmel'farb, B. N. [Stantsiya nablyudeniya ISZ pri Arkhangel'skom gos. pedinstitute imeni M. V. Lomonosova — Satellite Tracking Station at the Arkhangel'sk State Pedagogical Institute imeni M. V. Lomonosov]. Inclination of the Orbit of Satellite 1959

7

Zaytsev, A. A., and E. Sh. Khamitov. [Stantsiya nablyudeniya g. Birsk -- Tracking Station at Birsk] Application of the Impulse Relay for Recording the Contacts From a Chronometer

8

Eynasto, Ya. E. [Tartuskiy gosudarstvennyy universitet — Tartu State University]. On Observations of Artificial Earth Satellites in Hungary [Satellite Tracking Stations in Budapest, Baja, and Szombathely]

8

Card 2/4

ZAYTSEV, A. A.

PHASE I BOOK EXPLOITATION

SOV/5572

Akademiya nauk SSSR. Astronomicheskiy sovet

Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli.  
no. 4 (14) (Academy of Sciences of the USSR. Astronomic Council.  
Bulletin of the Stations for Optical Observation of Artificial Earth  
Satellites. No. 4 (14)) Moscow, 1960. 26 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Ed.: D. Ye. Shchegolev; Secretary: O. A. Severnaya.

PURPOSE: This bulletin is intended for scientists and engineers concerned with  
optical tracking of artificial satellites.

COVERAGE: The bulletin contains a brief report on phenomena observed during the  
impact of the second Soviet cosmic rocket on the moon as well as articles on  
the results of observations of various artificial earth satellites and  
Draconids, methods of observation used in Hungary, a translation of an article  
on satellite observation from Sky and Telescope, and a description of a

Card 1/4

ZAITSEV, A.A.; PAPLIYAN, M.Ye.

Diagnostic significance of a mirror symptom in hallucinatory form of schizophrenia. Nevropat. psikiyat., Moskva 20 no.5:70-72 Sept-Oct 51.  
(CIML 21:4)

1. Prof. Zaytsev. 2. Of the Psychiatric Clinic (Head---Prof. A.A. Zaytsev), Winnitsa Medical Institute.

ZAYTSEV, A.A.; KOSYAKOV, V.N.; RYKOV, A.G.; SOBOLEV, Yu.P.;  
YAKOVLEV, G.N.

[Kinetics of americium (V) reduction by hydrogen peroxide]  
Kinetika vosstanovleniya ameritegia (V) perekis'iu vodoroda.  
Moskva, Inst atomnoi energii AN SSSR, 1960. 11 p.

(MIRA 16:12)

(Americium) (Reduction, Chemical)

ZAYTSEV, A.A.; LEBEDEV, I.A.; PIROZHKOY, S.V.; YAKOVLEV, G.N.

Extraction of rhenium and molybdenum with trioctylamine from  
sulfuric acid solutions. Zhur.neorg.khim. 8 no.9:2184-2186  
S '63. (MIRA 16:10)

ZAYTSEV, A.A.; KOSYAKOV, V.N.; RYKOV, A.G.; SOBOLEV, Yu.P.;  
YAKOVIEV, G.N.

[Disproportionation of americium (V)] Disproportsioniro-  
vaniye ameritsiia (V). Moskva, Inst atomnoi energii AN SSSR,  
1960. 18 p. (MIRA 16:12)  
(Americium)

ZAYTSEV, A.A.; LEBEDEV, I.A.; PIROZHKOY, S.V.; YAKOVLEV, G.N.

Extraction of rhenium by pyridine bases. Zhur. neorg. khim.  
8 no.10:2407-2411 O '63. (MIRA 16:10)

1. Institut atomnoy energii im I.V. Kurchatova.  
(Rhenium) (Pyridine bases)

AKHMEDOV, A.R.; ZAYTSEV, A.A.

Experiments on the instability of a positive plasma column in a  
magnetic field. Vest. Mosk. un. Ser.3:Fiz., astron. 19 no.1:  
3-10 Ja-F '64. (MIRA 17:4)

1. Kafedra elektroniki Moskovskogo universiteta.

ZAYTSEV, A.A., dotsent; PAPLIYAN, M.Ye.

Mechanism of the action of malarial therapy. Nauch. trudy SamMI  
23s105-109 '63 (MIRA 1723)

1. Iz psichiatricheskoy kliniki Samarkandskogo meditsinskogo  
instituta.

ZAYTSEV, A.A., dotsent

Hematoplacental therapy of somatic and mental diseases. Nauch.  
trudy SamMI 23:100-104 '63 (MIRA 17:3)

1. Iz kafedry psichiatrii Samarkandskogo meditsinskogo insti-  
tuta.

ACC NR: AT6034468

The films were washed of traces of salts by transferring them into another cup of pure water. The tungsten films produced in this manner were heated in the temperature interval of 800 to 1800° in a vacuum of  $10^{-4}$ - $10^{-6}$  torr, by passing an electric current. The phase composition of the films was determined by the electronographic method. Analysis of the electronograms showed that: 1) tungsten films heated in a vacuum of  $10^{-4}$  torr without the use of traps cooled by liquid nitrogen, at temperatures of 900-1000°, are transformed within 1 hour into the carbides W<sub>2</sub>C and WC; at 800°, W<sub>2</sub>C is observed in the amount of approximately 30%; 2) even for films heated in a vacuum of  $3 \times 10^{-6}$  torr, with the use of two traps cooled by liquid nitrogen, in the temperature interval from 1000-1700°, there is always present a mixture of W<sub>2</sub>C and WC. Orig. art. has: 2 figures.

SUB CODE: 11/ SUBM DATE: 10Jun66/ ORIG REF: 001/ OTH REF: 001  
09/

Card 2/2

ACC NR: A16034468

(N)

SOURCE CODE: UR/0000/66/000/000/0290/0292

AUTHOR: Ivanova, R. S.; Ignatov, D. V.; Zaytsev, A. A.

ORG: none

TITLE: Electronographic investigation of the carbonization of thin films of tungsten, annealed in vacuum at high temperatures

SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh splavov (Properties and application of heat resistant alloys). Moscow, Izd-vo Nauka, 1966, 290-292

TOPIC TAGS: metal film, tungsten, electronic measurement

ABSTRACT: The experimental samples were thin films of tungsten (thickness 400 Å), produced in a vacuum of  $3 \times 10^{-6}$  torr by vaporization and condensation on a support. The supports used were sheets of mica and lumps of sodium chloride. The tungsten spiral for vaporization was made from a wire with a diameter of 150 mm, and was 15 mm long and had a diameter of 1.5-2 mm. The mounted spiral was etched in mixture of nitric and hydrofluoric acids. Before vaporization the spiral was degassed for a long period of time by heating it with an electric current in a vacuum of  $10^{-5}$ - $10^{-6}$  torr. The tungsten films, with a thickness of 400-500 Å, were separated from the supports by carefully immersing the mica sheets or the sodium chloride in a cup of distilled water.

Card 1/2

L 21700-66

ACC NR: A16015821

during slaughter and dressing of sheep with tularemia. The absence of clinical symptoms of the disease in the lambs infected with a dose of 100 MC, and the isolation of the pathogen from the skin at the site of injection of the culture (femoral area) points to the possibility of infection of humans during the dressing of sheepskins originating from natural foci of tularemia. Inoculation of sheep with the tularemia pathogen in this dose by meadow ticks is quite possible. The negative results of the investigation of the urine of a lamb that died of tularemia on the 9th day following infection with 10 billion MC, as well as of the investigation of the gall bladders of five lambs killed during the period of the acute course of the disease, and also the fact that the control animals placed in contact with the sick animals remained uninfected, give reason to believe that sick lambs do not eliminate the tularemia pathogen through their urine. Orig. art. has: 1 table. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: none

cont 2/2 MNS

L 2100-66	BMT(1)/T	JK	(A, N)	SOURCE CODE: UR/0346/65/000/007/0026/0027
ACC NR: AF6015821				

AUTHOR: Zaytsev, A. A.; Pokrovskaya, Ya. V.; Belikov, M. N.

ORG: [Zaytsev, Pokrovskaya] Stavropol' Area Sanitary-Epidemiological Station  
 (Stavropol'skaya krayevaya sanitarno-epidemiologicheskaya stantsiya); [Belikov]  
 Stavropol' Agricultural Institute (Stavropol'skiy sel'skokhozyaystvennyy institut)

TITLE: Length of persistence and localization of the tularemia pathogen in the  
 organism of experimentally infected sheep

SOURCE: Veterinariya, no. 7, 1965, 26-27

TOPIC TAGS: tularemia, commercial animal, animal disease, epidemiology, human ailment

ABSTRACT: The experiments were performed on sheep (28 Soviet Merino lambs 8-10 months old, and 6 Caucasian lambs 4 months old). The lambs were subcutaneously infected with virulent strain No '713 (minimum LD of this strain for white mice and guinea pigs - 1 microbial cell (MC)) in doses of from 1 to 1,000,000,000 MC. Anatomic-pathological dissection of the lambs during the period of acute course of the disease revealed the presence of the pathogen in their parenchymatous organs, which points out the epidemiological danger of slaughtering the animals at that period. In the 8-10 month-old lambs the tularemia pathogen was isolated from the skin at the site of culture injection, whereas in the 4-month-old lambs it was isolated only from the lymph nodes. Isolation of the pathogen from the lymph nodes of the lambs with tularemia on the 18th and 50th days after the date of infection (period of observation) involves the potential danger of infection to humans during

UDC: 619.616.981.455-092:636.3

Card 1/2

32

2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100035-6

ZAYTSEV, A.A.; LEBEDEV, I.A.; PIROZHKOVA, S.V.; YAKOVLEV, G.N.

Extraction of technetium by the derivatives of phosphoric acid and trioctylamine from nitric acid solutions. Radiokhimia 6 no.4:440-444 '64.

Extraction of technetium (VII) by derivatives of pyridine from alkaline solutions. Ibid.:445-447 (MIRA 18:4)

L 13004-66  
ACC NR: AP6001637

O  
and independent coordinates. The results show that a step by step application of Lagrange equations with non-excluded bonds is useful for constructing a logically systematic theory of vibrations in dependent coordinates. Orig. art. has: 1 table, 53 formulas.

SUB CODE: 20/ SUBM DATE: 16Nov64/ ORIG REF: 009/ OTH REF: 002

Jra

Card 2/2

L13004-66 DWT(1)/DWT(1)/ IJP(e)  
AC-NIC-AF0001637 SOURCE CODE: UR/0051/65/019/006/0874/0880

AUTHOR: Godnev, I. M.; Zaytsev, A. A.; Rizina, I. V.

ORG: none

TITLE: Using Lagrange's equations with non-excluded bonds for constructing a theory  
of molecular vibrations in dependent coordinates

SOURCE: Optika i spektroskopiya, v. 19, no. 6, 1965, 874-880

TOPIC TAGS: Lagrange equation, molecular physics, vibration

ABSTRACT: The authors propose a method for using Lagrange's equations with non-excluded bonds for taking account of any number of linear relationships between coordinates in the problem of vibrations in a molecule. This method eliminates the ambiguities which arise from unconditional application of ordinary Lagrange equations in the case of dependent coordinates. Expressions which describe the molecular oscillations are derived and the physical meanings and properties of the parameters which appear in these equations are analyzed. A comparison is made between differential equations for the vibration containing no more than two matrices in dependent

Card 1/2

UDC: 535.338.42.001.1

29

B

ZAYTSEV, A.A.; POKROVSKAYA, Ye.V.; BELIKOV, M.N.

Duration of preservation and localization of the tularemia agent  
in the organism of experimentally infected sheep. Veterinariia 42  
no.7:26-27 Jl '65. (NIKA 18:9)

1. Stavropol'skaya krayevaya sanitarno-epidemiologicheskaya  
stantsiya (for Zaytsev, Pokrovskaya). 2. Stavropol'skiy  
sel'skokhozyaystvennyy institut (for Belikov).

KRASHOV, K.S.; LAYTEV, A.A.

Frequency of stretching vibrations of  $M_2Hal_3$  molecules of  
lanthanum halides. Zhur. fiz. khim. 39 no.10:2477-2481 0  
'65. (MIRA 18:12)

1. Submitted July 15, 1964.

ZAYTSEV, A., prof.

Polymer materials in the construction of apartment houses  
and buildings serving cultural and public needs. Zhil.  
stroj. no.2:1-4 '64. (MIRA 18:11)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo  
instituta novykh stroitel'nykh materialov.

Striated positive column of gas ...      S/109/62/007/003/025/029  
69, 4,468; A. Stewart, J. Appl. Phys., 1956, 27, 8, 911.  
ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo  
universiteta im. M.V. Lomonosova, kafedra elektroniki  
(Faculty of Physics of the Moscow State University im.  
M.V. Lomonosov, Department of Electronics)

SUBMITTED: July 14, 1961

Card 3/3

Striated positive column of gas ...

S/109/62/007/003/025/029  
D256/D302

with mercury vapor. The experimental method was that described previously. In addition the discharge tube was placed in the magnetic field of a solenoid coil and light from the local region under investigation was directed on to a photoelectron-multiplier tube and recorded. The magnetic field was varied up to 1200 Gauss, and the pressure from 0.4 to 1 mm Hg. Pulses of  $0.2 \mu$  sec duration were applied between a ring round the tube and the cathode at a repetition rate of 50 l/sec in order to attain transition from a uniform helium column to a striated one. The presented results reveal a dependence of the pattern of the striated discharge upon the magnetic field applied; it was found that the magnetic field increases the length of the striations decreasing their frequency and velocity. The results are shown to be in agreement with the prediction of an approximate calculation expressing the length of the striations in terms of diffusion. There are 6 figures, 3 tables and 19 references: 8 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: H. Rother, Ann. Phys. 1959, 4, 7, 373; K. Wojaczek, Ann. Phys., 1958, 2, 1, 2, 68; R. Bickerton and A. Engel, Proc. Phys. Soc. B, 1956, Card 2/3

X

35482  
S/109/62/007/003/025/029  
D256/D302

262311

AUTHORS: Zaytsev, A.A., and Vasil'yeva, M.Ya.

TITLE: Striated positive column of gas discharge in a longitudinal magnetic field

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 3, 1962,  
557 - 565

TEXT: The study was conducted in order to examine the diffusion to the walls in the process of decrease of the number of charged particles in the plasma. If the mechanism of appearance of striations was controlled by the process of diffusion one would expect to observe changes in the velocity of moving striations of the positive column and in the character of the stationary striations under application of the longitudinal magnetic field. The following measurements were performed: 1) The velocity of the striation 'wave' in the position column of helium discharge; 2) The length of stationary striations in hydrogen; 3) The length and the frequency of non-stationary striations in helium and in a mixture of argon

Card 4/3

X

ZAYTSEV, A.A.

Ionization oscillations in discharges through inert gases mixed with mercury vapors. Izv. vys. ucheb. zav; radiofiz. 5 no.3:523-533 '62,  
(MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet.  
(Electric discharges through gases) (Oscillations)

ZAYTSEV, A.A.

Computation of the state sum by the trace method. Izv.vys.ucheb.-  
zav., fiz. 2:70-76 '62. (MIRA 15:7)

1. Ivanovskiy khimiko-tehnologicheskiy institut,  
(Energy-band theory of solids) (Quantum theory) (Matrices)